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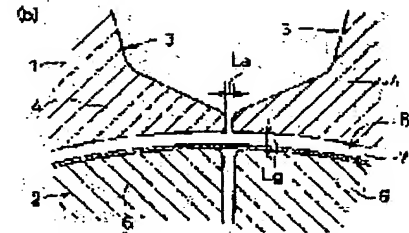
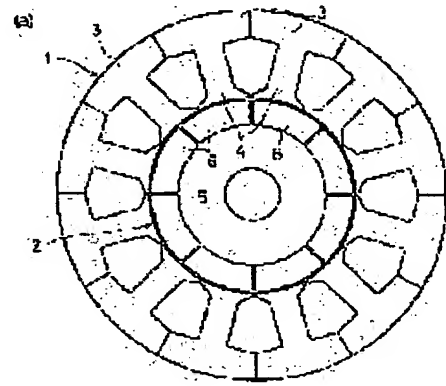
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(54) PERMANENT MAGNET SYNCHRONOUS MOTOR

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a permanent magnet synchronous motor to improve demagnetization proof strength of a rotor magnet by adopting a centralized winding system.

SOLUTION: In a permanent magnet synchronous motor having a centralized winding type stator, a space between teeth 4 and 4 of a stator 1 is defined as L_a , an air gap 8 between the stator 1 and a rotor 2 is defined as L_g . By setting the space L_a to $L_a \geq 2.0 L_g$ and setting the space between the end of the teeth 4 to less than 2.0 times L_g of the air gap 8, a magnetic flux of demagnetization is restrained from flowing toward the the rotor 2, making it difficult for the magnetic field of demagnetization to act on a permanent magnet 6 in order to improve demagnetization proof strength of the permanent magnet 6 even in the case the magnetic pole of a coil and the rotor 2 are made to oppose.



LEGAL STATUS

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